1976 Index by Subject to Algorithms

Algorithms published elsewhere are included. Each entry gives the key to the classification system categories (A1, B1, . . .); the number of the algorithm if in TOMS (starting with Algorithm 499, March 1976); abbreviated title with language designator (A for Algol, F for Fortran, etc.); then month, year, page (in parentheses) in TOMS, *or* if published elsewhere, journal designator, volume, year, page (in parentheses).

A cumulative index to algorithms published in CACM/TOMS from 1960 through 1974 may be consulted in "Collected Algorithms from ACM," which is a looseleaf collection of all the algorithms, each with certifications and remarks, if any, appended. The 1975 index appears in the December 1975 CACM.

ABBREVIATIONS FOR SOURCES

AL ARGONNE NATIONAL LABORATORY, MATS PROJECT
AS APPLIED STATISTICS
BT B I T
CA COMMUNICATIONS OF THE ASSOCIATION FOR COMPUTING MACHINERY
CC COMPUTER PHYSICS COMMUNICATIONS
CJ COMPUTER JOURNAL
CP COMPUTING
HA U K A E A , HARWELL, REPORTS
JC JOURNAL OF THE ASSOCIATION FOR COMPUTING MACHINERY
MC MATHEMATICS OF COMPUTATION
NM NUMERISCHE MATHEMATIK
TO TRANSACTIONS ON MATHEMATICAL SOFTWARE
ZM ZASTOSOWANIA MATEMATYKI

LANGUAGE CODE

A ALGOL
B BASIC
F FORTRAN
M ASSEMBLY LANGUAGE
P PL/1
PF PL/1 - FORMAC

C2 ZEROS OF POLYNOMIALS

C2 SOLUTION OF POLY TO MACH PRECISION (A) CJ,18-75(258)

C5 ZEROS OF ONE OR MORE NON-LINEAR EQUATIONS

C5 502 DEP SOL OF NONLIN SYS ON A PARAM (F) TO,2-76(98)

C6 SUMMATION OF SERIES, CONVERGENCE ACCELERATION

C6 97 REAL FAST FOURIER TRANSFORM (F) AS,25-76(166)

D1 QUADRATURE

D1 43 EVAL IMPROPER INTEGRAL ON FINITE INT (A) ZM,15-76(141)

D2 ORDINARY DIFFERENTIAL EQUATIONS

D2 504 GERK GLOBAL ERROR EST FOR ODES (F) TO,2-76(200)
D2 47 SOL 1-ST ORD ODE'S IN CHEBY SERIES (A) ZM,15-76(252)

D3 PARTIAL DIFFERENTIAL EQUATIONS

D3 METHOD OF CHARACTERISTICS FOR PDES (A) NM,24-75(331)
D3 48 BOUND VAL PROB FOR BIHARMONIC EQ (A) ZM,15-76(397)

D5 INTEGRAL EQUATIONS

D5 486 NUM INVERSION OF LAPLACE TRANSFORM (A) CA,17-74(587),2-76(395)
D5 INVERSION OF ABEL'S INTEGRAL EQ (F) CC,10-75(98)
D5 CALCULATION OF GREEN'S FUNCTIONS (F) CC,11-76(27)
D5 503 FREDHOLM EQS OF SECOND KIND (F) TO,2-76(196)

E1 INTERPOLATION

E1 51 LOG-LINEAR FIT (F) AS,21-72(218),25-76(193)
E1 TRIGONOMETRIC INTERPOLATION (A) CP,16-76(319)
E1 507 QUINTIC NATURAL SPLINE INTERPOLATION (F) TO,2-76(281)
E1 46 INTERP QUADRATIC SPLINE FUNCTION (A) ZM,15-76(245)

E2 CURVE AND SURFACE FITTING

E2 74 L1-NORM FIT OF A STRAIGHT LINE (F) AS,23-74(244),25-76(96)
E2 433 SMOOTH CURVE FITTING (F) CA,15-72(914),2-76(208)
E2 510 PIECEWISE LINEAR APPROX TO TAB DATA (F) TO,2-76(388)
E2 501 TRANS ALG 409, DISCRETE CHEBY FIT (F) TO,2-76(95)
E2 32 CONSTRUCTION OF POLY VALUES (A) ZM,14-74(327),14-75(646)

E4 MINIMIZING OR MAXIMIZING A FUNCTION

E4 47 SIMPLEX METHOD FOR FUNCTION MIN (F) AS,20-71(388),25-76(97)
E4 450 ROSENBROCK FUNCTION MINIMIZATION (F) CA,16-73(482),17-74(590),
E4 450 2-76(300)
E4 FN MIN & ANAL OF PARAM ERRORS (F) CC,10-75(343)
E4 500 MIN OF UNCONSTRAINED MULTIVAR FUN (F) TO,2-76(87)

F1 MATRIX OPERATIONS, INCLUDING INVERSION

F1 508 MATRIX BANDWIDTH & PROFILE REDUCTION (F) TO,2-76(375)
F1 509 HYBRID PROFILE REDUCTION (F) TO,2-76(378)

F2 EIGENVALUES AND EIGENVECTORS OF MATRICES

F2 BANDED EIGENVALUE PROBLEMS (F) CC,10-75(30)
F2 496 LZ ALG FOR GEN COMPLEX EIGENVALUES (F) TO,1-75(271),2-76(396)
F2 506 EIGENVALUES OF HESSENBERG MATRIX (F) TO,2-76(275)

F4 SIMULTANEOUS LINEAR EQUATIONS

F4 DETERMINATION OF SSOR-SI ITER PARAM (F) CC,10-75(194)
F4 SOL OF CERTAIN BANDED LINEAR SYSTEMS (F) CJ,19-76(184)
F4 37 SOL OF SPARSE LINEAR EQ SYSTEMS (A) ZM,14-74(481)

G1 SIMPLE CALCULATIONS ON STATISTICAL DATA

G1 29 THE RUNS UP AND DOWN TEST AS,19-70(190),25-76(193)
G1 78 THE MEDIANCENTRE (F) AS,23-74(466),24-75(390)
G1 89 UPPER TAIL PROB OF SPEARMAN'S RHO (F) AS,24-75(377)
G1 91 PERCENTAGE PTS OF CHI SQUARED DIST (F) AS,24-75(385)
G1 92 SAMPLE SIZE FOR DIST -FREE TOL INT (F) AS,24-75(388)
G1 99 FITTING JOHNSON CURVES BY MOMENTS (F) AS,25-76(180)
G1 100 NORMAL-JOHNSON & JOHNSON-NORMAL TRANS (F) AS,25-76(190)
G1 93 NULL DIST OF ANSARI-BRADLEY W STAT (F) AS,25-76(75)
G1 94 COEFFICIENTS OF THE ZONAL POLYNOMIALS (F) AS,25-76(82)
G1 95 EST LOC & SCALE PARAM GROUPED DATA (F) AS,25-76(88)
G1 30 L1 (NORM) CLUSTER ANALYSIS (F) CP,16-76(379)
G1 33 TEST DIFF IN TRENDS IN 2-FATOR EX (A) ZM,14-74(335)
G1 34 USE OF ORTHOG COMP IN TEST TREND (A) ZM,14-74(343)
G1 35 CALC OF MEASURES OF STOCH DEPEND (A) ZM,14-74(471)
G1 38 CALC OF ALL MARGINAL MEANS (A) ZM,14-75(639)
G1 40 SEARCH FOR MARGINAL MEANS (A) ZM,14-75(655)

G2 CORRELATION AND REGRESSION ANALYSIS

G2 90 ONE-SIDED MULTI-VARIABLE INFERENCE (F) AS,24-75(380)
G2 434 R*C CONTINGENCY TABLES (F) CA,15-72(991),17-74(326),
G2 434 1-75(117),2-76(108)
G2 39 CORRECTED SUMS OF SQS FOR ANAL VAR (A) ZM,14-75(647
G2 41 INTERDEP EXAMS BY ANAL REGRESSION (A) ZM,15-76(125)
G2 44 MAHALANOBIS DIST OR RES SUM SQS (A ZM,15-76(215)

G5 RANDOM NUMBER GENERATORS

G5 98 SPECTRAL TEST FOR CONG RAND NO GEN (F) AS,25-76(173)

G6 PERMUTATIONS AND COMBINATIONS

G6 88 ALL COMB OF N THINGS R AT A TIME (F) AS,24-75(374)
G6 GENERATING PERMUTATIONS (A) CJ,19-76(156)

G7 SUBSET GENERATORS

G7 29 DOUBLY & MULTIPLY RES PARTITIONS (A) CP,16-76(163)

H OPERATIONS RESEARCH, GRAPH STRUCTURES

H 24 DERIVING CHROMATIC POLYNOM OF GRAPH (F) CP,14-75(195),16-76(291)
H 26 TRANSITIVE CLOSURE OF A DIGRAPH CP,15-75(75)
H 27 K-TH BEST ROUTE PROBLEM (A) CP,16-76(139)
H 28 GENERATING GRAPHS OF GIVEN PARTITION (F) CP,16-76(153)
H OPTIMIZATION FOR SPECIAL NETWORKS (F) CP,16-76(77)
H 31 NO OF PATHS IN A NETWORK CP,17-76(93)
H 36 TRANSITIVE CLOSURE OF A GRAPH (A) ZM,14-74(477)
H 42 ENCLOSURE OF PT TO MIN SPAN TREE (A) ZM,15-76(135)
H 45 TRAVELING-SALESMAN PROBLEM (A) ZM,15-76(223)

J6 PLOTTING

J6 96 SCALING GRAPHS (F) AS,25-76(94)
J6 495 VISIBLE SURFACE PLOTTING (F) CA,17-74(152),1-75(202)
J6 495 1-75(276),1-75(277)
J6 495 1-75(381),2-76(109)

K2 RELOCATION

K2 284 INTERCHANGE 2 BLOCKS OF DATA (A) CA,9-66(326),2-76(392)

M1 SORTING

M1 489 FINDING I-TH SMALLEST OF N ELEMENTS (A) CA,1-75(173),2-76(301)
M1 347 SORT WITH MINIMAL STORAGE (A AND F) CA,12-69(185),13-70(54),
M1 347 13-70(624),2-76(290)
M1 426 MERGE SORT ALGORITHM (A) CA,15-72(357),17-74(706),
M1 426 2-76(290)

R2 SYMBOL MANIPULATION

R2 ALGOL 1 INTO ALGOL 11 (A) CC,11-76(5)

S APPROXIMATION OF SPECIAL FUNCTIONS

S FUNCTIONS ARE CLASSIFIED S01 TO S22, FOLLOWING
S FLETCHER-MILLER-ROSENHEAD, INDEX OF MATH TABLES
S14 349 POLYGAMMA FNS WITH ARB PRECISION (A) CA,12-69(213),1-75(380),
S14 349 2-76(206)
S14 487 CUMULATIVE DIST OF K-S (F) CA,17-74(704),2-76(111)
S15 299 CHI-SQUARED INTEGRAL (A) CA,10-67(243),11-68(270)
S15 299 2-76(393)
S20 505 LIST INSERT SORT FOR ARB KEY DIST (F) TO,2-76(204)
S22 490 DILOGARITHM FUNCTION OF REAL ARGUMENT (F) CA,1-75(200),2-76(112)

Y1 PHYSICS APPLICATIONS

Y1 EIGEN OF LABEL OP O(3) BASES U(3) (F) CC,10-75(1)
Y1 NORMAL COORDINATE ANAL OF CRYSTALS (F) CC,10-75(104)
Y1 MAGNETOHYDRODYNAMIC STABILITY (F) CC,10-75(111)
Y1 CO2 LASER KINETICS CODE (F) CC,10-75(117)
Y1 ANAL OF SPECTROSCOPIC PEAK SHAPES (F) CC,10-75(145)
Y1 LASER PULSE PROPAGATION (F) CC,10-75(155)
Y1 NUCLEAR POTENTIAL (F) CC,10-75(182)
Y1 ATOMIC COLLISIONS (F) CC,10-75(223)
Y1 CANTERBURY APPROXIMANTS (A & F) CC,10-75(234)
Y1 CLEBSCH-GORDAN COEFFICIENTS (PF) CC,10-75(245)
Y1 DEFORMED QUASIPARTICLES (F) CC,10-75(293)
Y1 TRANSFER OF LINE RADIATION (F) CC,10-75(304)
Y1 VIBRATIONAL ENERGIES OF CO2 (F) CC,10-75(368)
Y1 ROVIBRATIONAL CROSS SECTIONS (F) CC,10-75(375)
Y1 KINEMATICS OF THREE-BODY REACTIONS (F) CC,10-75(385)
Y1 COULOMB-NUCLEAR INTERFERENCE (F) CC,10-75(401)
Y1 X-RAY REFLECTION INTENSITIES (F) CC,10-75(42)
Y1 MAGNETOTELLURIC MODELLING (F) CC,10-75(421)
Y1 RED ELEM SUM ONE-PARTICLE TENSOR (F) CC,10-75(56)
Y1 SYMMETRY AND BANDSTRUCTURE (F) CC,10-75(67)
Y1 HARMONIC OSCILLATOR BRACKETS (F) CC,10-75(87)
Y1 ELEMENTS OF REACTION MATRIX (F) CC,11-76(113)
Y1 EVALUATE HYPERFINE STRUCTURE (F) CC,11-76(125)
Y1 ONE-DIM PULSE HEIGHT SPECTRA (F) CC,11-76(37)
Y1 DIPOLE & OVERLAP INTEGRALS (F) CC,11-76(49)
Y1 ATOMIC SCF HARTREE-FOCK (A) CC,11-76(57)
Y1 GAMMA-GAMMA DIRECTIONAL CORR COEFF (F) CC,11-76(75)
Y1 INELASTIC SCATTERING OF PIONS (F) CC,11-76(95)
Y1 ONE-DIM LASER FUSION CODE (F) CC,7-74(271),10-75(251)
Y1 RAYLEIGH FORM FACTORS (F) CC,7-74(389),10-75(259)
Y1 ENERGIES & SLATER INTEGRALS (F) CC,7-74(73),10-75(436)
Y1 COULOMB WAVE FUNCTIONS (F) CC,8-74(377),11-76(141)
Y1 MATRIX OF SPIN-ORBIT INTERACTION (F) CC,9-75(102),10-75(70)
Y1 CONFIGURE INTERACTION (F) CC,9-75(141),10-75(434)
Y1 SPECTRA AND CROSS-SECTIONS (F) CC,9-75(92),10-75(71)

Z ALL OTHERS

Z 479 MINIMAL SPANNING TREE CLUSTERING METH (F) CA,17-74(321),1-75(119)
Z 479 2-76(110)
Z OLYMPUS SYSTEM (F) CC,7-74(237),7-74(245)
Z 9-75(51),10-75(169)
Z 499 AN EFFICIENT SCANNING TECHNIQUE (F) TO,2-76(82)

Index to Communications of the ACM Volume 19, 1976

BIBLIOGRAPHY
AUTHOR INDEX
DEPARTMENT INDEX

Entries in this Index are technical papers, short communications, award papers, educational reports, special papers, and topical articles. Algorithms are indexed separately; the "Index by Subject to Algorithms 1976" is on page 696 of this issue.

The KEY in each entry gives the year and volume number (7619), the issue number (which is also the number of the month), and the beginning page number.

The BIBLIOGRAPHY lists the entries in order of original appearance; each entry gives the title and the name(s) of the author(s).

The AUTHOR INDEX lists the entries in order of alphabetized authors' names. If there is more than one author for a paper, each author is listed separately in alphabetical order; therefore, in this section a single entry would not include co-author's names.

The DEPARTMENT INDEX groups technical papers and short communications according to the technical departments for which they were designated. Other papers are listed last under the heading Reports and Articles.

BIBLIOGRAPHY

7619 1 3 A STUDY OF LINE OVERHEAD IN THE ARPANET * KLEINROCK, L. / NAYLOR, W.E. / OPDERBECK, H.
7619 1 13 AN ANOMALY IN DISK SCHEDULING: A COMPARISON OF FCFS AND SSTF SEEK SCHEDULING USING AN EMPIRICAL MODEL FOR DISK ACCESSES * WILHELM, N.C.
7619 1 18 ON QUADRATIC ADAPTIVE ROUTING ALGORITHMS * AGNEW, C.E.
7619 1 23 PERFORMANCE OF HEIGHT-BALANCED TREES * KARLTON, P.L. / FULLER, S.H. / SCROGGS, R.E. / KAEHLER, E.B.
7619 1 29 INFORMATION REFERENCE CODING * FLORENTIN, J.J.
7619 1 33 A STUDY OF ERRORS, ERROR PRONENESS, AND ERROR DIAGNOSIS IN COBOL * LITECKY, C.R. / DAVIS, G.B.
7619 2 55 SEMANTIC EVALUATION FROM LEFT TO RIGHT * BOCHMANN, G.V.
7619 2 63 ON SELF-ORGANIZING SEQUENTIAL SEARCH HEURISTICS * RIVEST, R.
7619 2 68 PERMUTATION ENUMERATION: FOUR NEW PERMUTATION ALGORITHMS * IVES, F.M.
7619 2 73 AN APPLICATION OF HEURISTIC SEARCH METHODS TO EDGE AND CONTOUR DETECTION * MARTELLI, A.
7619 2 84 A STOCHASTIC EVALUATION MODEL FOR DATABASE ORGANIZATIONS IN DATA RETRIEVAL SYSTEMS * SILER, K.F.
7619 2 96 A COUNTERINTUITIVE EXAMPLE OF COMPUTER PAGING * FAGIN, R.
7619 2 98 A FAST DIVISION TECHNIQUE FOR CONSTANT DIVISORS * ARTZY, E. / HINDS, J.A. / SAAL, H.J.
7619 2 108 ERRATUM: RECIPROCAL TABLE OF INAKIBIT-ANU INCORRECTLY RENDERED * KNUTH, D.E.
7619 3 113 1975 ACM TURING AWARD LECTURE: COMPUTER SCIENCE AS EMPIRICAL INQUIRY: SYMBOLS AND SEARCH * NEWELL, A. / SIMON, H.A.
7619 3 127 JOINING POLICIES IN A MULTIPRIORITY MULTICLASS BATCH COMPUTER SYSTEM * BABAD, J.M. / MODIANO, M.M.
7619 3 137 A PROGRAM DATA FLOW ANALYSIS PROCEDURE * ALLEN, F.E. / COCKE, J.
7619 3 148 INTENTIONAL RESOLUTION OF PRIVACY PROTECTION IN DATABASE SYSTEMS * MINSKY, N.
7619 4 171 DEVELOPMENT OF AN INTERNATIONAL SYSTEM FOR LEGAL PROTECTION OF COMPUTER PROGRAMS * SMOOT, O.R.
7619 4 175 A COMPARATIVE EVALUATION OF VERSIONS OF BASIC * LIENTZ, B.P.
7619 4 182 LG: A LANGUAGE FOR ANALYTIC GEOMETRY * RAYMOND, J.
7619 4 187 CORRIGENDUM: A COUNTERINTUITIVE EXAMPLE OF COMPUTER PAGING * FAGIN, R.
7619 4 188 LOGICAL ANALYSIS OF PROGRAMS * KATZ, S. / MANNA, Z.
7619 5 236 A LATTICE MODEL OF SECURE INFORMATION FLOW * DENNING, D.E.
7619 5 243 SECURITY KERNEL VALIDATION IN PRACTICE * MILLEN, J.K.
7619 5 251 REFLECTIONS ON AN OPERATING SYSTEM DESIGN * LAMPSON, B.W. / STURGIS, H.E.
7619 5 266 MODULARIZATION AND HIERARCHY IN A FAMILY OF OPERATING SYSTEMS * HABERMANN, A.N. / FLON, L. / COOPRIDER, L.
7619 5 273 PROVING MONITORS * HOWARD, J.H.
7619 5 279 VERIFYING PROPERTIES OF PARALLEL PROGRAMS: AN AXIOMATIC APPROACH * OWICKI, S. / GRIES, D.
7619 5 282 CHARACTERISTICS OF PROGRAM LOCALITIES * MADISON, A.W. / BATSON, A.P.
7619 5 295 VMIN--AN OPTIMAL VARIABLE-SPACE PAGE REPLACEMENT ALGORITHM * PRIEVE, B.G. / FABRY, R.S.
7619 5 298 ANALYSIS OF THE PFF REPLACEMENT ALGORITHM VIA A SEMI-MARKOV MODEL * CHU, W.W. / OPDERBECK, H.
7619 6 311 PRODUCTION AND EMPLOYMENT OF PH.D'S IN COMPUTER SCIENCE * TAULBEE, O.E. / CONTE, S.D.
7619 6 314 A PRACTITIONER'S GUIDE TO ADDRESSING ALGORITHMS * SEVERANCE, D. / DUHNE, R.
7619 6 327 INTERFERENCE IN MULTIPROCESSOR COMPUTER SYSTEMS WITH INTERLEAVED MEMORY * BASKETT, F. / SMITH, A.J.
7619 6 335 A PROCESS FOR THE DETERMINATION OF ADDRESSES IN VARIABLE LENGTH ADDRESSING * FRIEDER, G. / SAAL, H.J.
7619 6 338 REFERENCING LISTS BY AN EDGE * WISE, D.S.
7619 6 343 THE SYNTHETIC APPROACH TO DECISION TABLE CONVERSION * SCHUMACHER, H. / SEVCIK, K.C.
7619 6 352 AN EFFICIENT LIST-MOVING ALGORITHM USING CONSTANT WORKSPACE * CLARK, D.W.
7619 6 354 CORRIGENDUM: MULTIPROCESSING COMPACTIFYING GARBAGE COLLECTION * STEELE, G.L. JR.
7619 6 355 A NUMBERING SYSTEM FOR PERMUTATIONS OF COMBINATIONS (SHORT COMMUNICATION) * KNOTT, G.D..

7619 7 369 THE TECHNOLOGY OF COMPUTER CENTER MANAGEMENT: A PROPOSED COURSE FOR GRADUATE PROFESSIONAL PROGRAMS IN COMPUTER SCIENCE OR IN INFORMATION SYSTEMS * CONTE, S.D. / HALSTEAD, M.H.
7619 7 371 FORMAL VERIFICATION OF PARALLEL PROGRAMS * KELLER, R.M.
7619 7 385 SYMBOLIC EXECUTION AND PROGRAM TESTING * KING, J.C.
7619 7 395 ETHERNET: DISTRIBUTED PACKET SWITCHING FOR LOCAL COMPUTER NETWORKS * METCALFE, R.M. / BOGGS, D.R.
7619 7 404 SYNTHESIS OF DECISION RULES * CHENG, C-W. / RABIN, J.
7619 7 407 SAMPLING FROM THE GAMMA DISTRIBUTION ON A COMPUTER * FISHMAN, G.S.
7619 7 409 COMPRESSED TRIES * MALY, K.
7619 7 416 A BUDDY SYSTEM VARIATION FOR DISK STORAGE ALLOCATION * BURTON, W.
7619 7 417 HEAPS APPLIED TO EVENT DRIVEN MECHANISMS * GONNET, G.H.
7619 8 430 TOOLS AND PHILOSOPHY FOR SOFTWARE EDUCATION * DONOVAN, J.J.
7619 8 437 THE DENOTATIONAL SEMANTICS OF PROGRAMMING LANGUAGES * TENNENT, R.D.
7619 8 454 DESIGNING SURFACES IN 3-D * CLARK, J.H.
7619 8 461 PROTECTION IN OPERATING SYSTEMS * HARRISON, M.A. / RUZZO, W.L. / ULLMAN, J.D.
7619 8 471 AN INSERTION TECHNIQUE FOR ONE-SIDED HEIGHT-BALANCED TREES * HIRSCHBERG, D.S.
7619 9 491 ANALYSIS OF AN ALGORITHM FOR REAL TIME GARBAGE COLLECTION (1975-1976 GEORGE E. FORSYTHE STUDENT COMPETITION AWARD PAPER) * WADLER, P.L.
7619 9 501 NEW UPPER BOUNDS FOR SELECTION (1975-1976 GEORGE E. FORSYTHE STUDENT COMPETITION AWARD PAPER) * YAP, C.K.
7619 9 509 WEIGHTED DERIVATION TREES (1975-1976 GEORGE E. FORSTYHE STUDENT COMPETITION AWARD PAPER) * LOUI, M.C.
7619 9 514 RECURSION ANALYSIS FOR COMPILER OPTIMIZATION * WALTER, K.G.
7619 9 517 EFFICIENT GENERATION OF THE BINARY REFLECTED GRAY CODE AND ITS APPLICATIONS * BITNER, J.R. / ERLICH, G. / REINGOLD, E.M.
7619 9 522 AN EFFICIENT, INCREMENTAL, AUTOMATIC GARBAGE COLLECTOR * DEUTSCH, L.P. / BOBROW, D.G.
7619 9 526 FASTER RETRIEVAL FROM CONTEXT TREES * WEGBREIT, B.
7619 9 529 CORRIGENDUM: ANALYSIS OF THE PFF REPLACEMENT ALGORITHM VIA A SEMI-MARKOV MODEL * CHU, W.W. / OPDERBECK, H.
7619 9 529 CORRIGENDUM: A PRACTITIONER'S GUIDE TO ADDRESSING ALGORITHMS * SEVERANCE, D.G. / DUHNE, R.A.
7619 10 542 TEXTURE AND REFLECTION IN COMPUTER GENERATED IMAGES * BLINN, J.F. / NEWELL, M.E.
7619 10 547 HIERARCHICAL GEOMETRIC MODELS FOR VISIBLE SURFACE ALGORITHMS * CLARK, J.H.
7619 10 555 A PARAMETRIC ALGORITHM FOR DRAWING PICTURES OF SOLID OBJECTS COMPOSED OF QUADRIC SURFACES * LEVIN, J.
7619 10 564 INTERACTIVE SKELETON TECHNIQUES FOR ENHANCING MOTION DYNAMICS IN KEY FRAME ANIMATION * BURTNYK, N. / WEIN, M.
7619 10 570 THE BMD AND BMDP SERIES OF STATISTICAL COMPUTER PROGRAMS * FRANE, J.W.
7619 10 576 AN IMPROVEMENT TO MARTIN'S ALGORITHM FOR COMPUTATION OF LINEAR PRECEDENCE FUNCTIONS * DUONG-KIEN, C. / HOFFMANN, H-J. / MUTH, D.
7619 10 578 THE STATUS OF WOMEN AND MINORITIES IN ACADEMIC COMPUTER SCIENCE * MONTANELLI, R.G. JR. / MAMRAK, S.A.
7619 11 595 HOMILIES FOR HUMBLE STANDARDS * ROSS, D.T.
7619 11 601 COBOL UNDER CONTROL * LEDGARD, H.F. / CAVE, W.C.
7619 11 609 THE DESIGN AND IMPLEMENTATION OF A TABLE DRIVEN, INTERACTIVE DIAGNOSTIC PROGRAMMING SYSTEM * WILCOX, T.R. / DAVIS, A.M. / TINDALL, M.H.
7619 11 617 EXPERIMENTS IN TEXT FILE COMPRESSION * RUBIN, F.
7619 11 623 CORRIGENDUM: INTERFERENCE IN MULTIPROCESSOR COMPUTER SYSTEMS WITH INTERLEAVED MEMORY * BASKETT, F. / SMITH, A.J.
7619 11 624 THE NOTIONS OF CONSISTENCY AND PREDICATE LOCKS IN A DATABASE SYSTEM * ESWARAN, K.P. / GRAY, J.N. / LORIE, R.A. / TRAIGER, I.L.
7619 11 634 OPTIMAL REORGANIZATION OF DISTRIBUTED SPACE DISK FILES * MARUYAMA, K. / SMITH, S.E.
7619 11 642 HIGH-LEVEL BINDING WITH LOW-LEVEL LINKERS * HAMLET, R.G.
7619 12 655 ROSTER OF PROGRAMMING LANGUAGES FOR 1974-1975 * SAMMET, J.E.
7619 12 670 THE COMPUTER SCIENCE AND ENGINEERING RESEARCH STUDY (COSERS) * ARDEN, B.W.
7619 12 674 COMPUTER-AIDED ANALYSIS AND DESIGN OF INFORMATION SYSTEMS * NUNAMAKER, J.F. JR. / KONSYNSKI, B.R. JR. / HO, T. / SINGER, C.
7619 12 688 STRUCTURAL PATTERN RECOGNITION OF CAROTID PULSE WAVES USING A GENERAL WAVEFORM PARSING SYSTEM * STOCKMAN, G. / KANAL, L. / KYLE, M.C.

AUTHOR INDEX

7619 1 18 AGNEW, C.E. — ON QUADRATIC ADAPTIVE ROUTING ALGORITHMS
7619 3 137 ALLEN, F.E. — A PROGRAM DATA FLOW ANALYSIS PROCEDURE
7619 12 670 ARDEN, B.W. — THE COMPUTER SCIENCE AND ENGINEERING RESEARCH STUDY (COSERS)
7619 2 98 ARTZY, E. — A FAST DIVISION TECHNIQUE FOR CONSTANT DIVISORS
7619 3 127 BABAD, J.M. — JOINING POLICIES IN A MULTIPRIORITY MULTICLASS BATCH COMPUTER SYSTEM
7619 6 327 BASKETT, F. — INTERFERENCE IN MULTIPROCESSOR COMPUTER SYSTEMS WITH INTERLEAVED MEMORY
7619 11 623 BASKETT, F. — CORRIGENDUM: INTERFERENCE IN MULTIPROCESSOR COMPUTER SYSTEMS WITH INTERLEAVED MEMORY
7619 5 285 BATSON, A.P. — CHARACTERISTICS OF PROGRAM LOCALITIES
7619 9 517 BITNER, J.R. — EFFICIENT GENERATION OF THE BINARY REFLECTED GRAY CODE AND ITS APPLICATIONS
7619 10 542 BLINN, J.F. — TEXTURE AND REFLECTION IN COMPUTER GENERATED IMAGES
7619 9 522 BOBROW, D.G. — AN EFFICIENT, INCREMENTAL, AUTOMATIC GARBAGE COLLECTOR
7619 2 55 BOCHMANN, G.V. — SEMANTIC EVALUATION FROM LEFT TO RIGHT
7619 7 395 BOGGS, D.R. — ETHERNET: DISTRIBUTED PACKET SWITCHING FOR LOCAL COMPUTER NETWORKS
7619 10 564 BURTNYK, N. — INTERACTIVE SKELETON TECHNIQUES FOR ENHANCING MOTION DYNAMICS IN KEY FRAME ANIMATION
7619 7 416 BURTON, W. — A BUDDY SYSTEM VARIATION FOR DISK STORAGE ALLOCATION
7619 11 601 CAVE, W.C. — COBOL UNDER CONTROL
7619 7 404 CHENG, C-W. — SYNTHESIS OF DECISION RULES
7619 5 298 CHU, W.W. — ANALYSIS OF THE PFF REPLACMENT ALGORITHM VIA A SEMI-MARKOV MODEL
7619 9 529 CHU, W.W. — CORRIGENDUM: ANALYSIS OF THE PFF REPLACEMENT ALGORITHM VIA A SEMI-MARKOV MODEL
7619 6 352 CLARK, D.W. — AN EFFICIENT LIST-MOVING ALGORITHM USING CONSTANT WORKSPACE
7619 8 454 CLARK, J.H. — DESIGNING SURFACES IN 3-D
7619 10 547 CLARK, J.H. — HIERARCHICAL GEOMETRIC MODELS FOR VISIBLE SURFACE ALGORITHMS
7619 3 137 COCKE, J. — A PROGRAM DATA FLOW ANALYSIS PROCEDURE
7619 6 311 CONTE, S.D. — PRODUCTION AND EMPLOYMENT OF PH.D'S IN COMPUTER SCIENCE
7619 7 369 CONTE, S.D. — THE TECHNOLOGY OF COMPUTER CENTER MANAGEMENT: A PROPOSED COURSE FOR GRADUATE PROFESSIONAL PROGRAMS IN COMPUTER SCIENCE OR IN INFORMATION SYSTEMS
7619 5 266 COOPRIDER, L. — MODULARIZATION AND HIERARCHY IN A FAMILY OF OPERATING SYSTEMS
7619 11 609 DAVIS, A.M. — THE DESIGN AND IMPLEMENTATION OF A TABLE DRIVEN, INTERACTIVE DIAGNOSTIC PROGRAMMING SYSTEM
7619 1 33 DAVIS, G.B. — A STUDY OF ERRORS, ERROR PRONENESS, AND ERROR DIAGNOSIS IN COBOL
7619 5 236 DENNING, D.E. — A LATTICE MODEL OF SECURE INFORMATION FLOW

7619 9 522 DEUTSCH, L.P. — AN EFFICIENT, INCREMENTAL, AUTOMATIC GARBAGE COLLECTER
7619 8 430 DONOVAN, J.J. — TOOLS AND PHILOSOPHY FOR SOFTWARE EDUCATION
7619 6 314 DUHNE, R.A. — A PRACTITIONER'S GUIDE TO ADDRESSING ALGORITHMS
7619 9 529 DUHNE, R.A. — CORRIGENDUM: A PRACTITIONER'S GUIDE TO ADDRESSING ALGORITHMS
7619 10 576 DUONG-KIEN, C. — AN IMPROVEMENT TO MARTIN'S ALGORITHM FOR COMPUTATION OF LINEAR PRECEDENCE FUNCTIONS (SHORT COMMUNICATION)
7619 9 517 ERLICH, G. — EFFICIENT GENERATION OF THE BINARY REFLECTED GRAY CODE AND ITS APPLICATIONS
7619 11 624 ESWARAN, K.P. — THE NOTIONS OF CONSISTENCY AND PREDICATE LOCKS IN A DATABASE SYSTEM
7619 5 295 FABRY, R.S. — VMIN--AN OPTIMAL VARIABLE-SPACE PAGE REPLACEMENT ALGORITHM
7619 2 96 FAGIN, R. — A COUNTERINTUITIVE EXAMPLE OF COMPUTER PAGING
7619 4 187 FAGIN, R. — CORRIGENDUM: A COUNTERINTUITIVE EXAMPLE OF COMPUTER PAGING
7619 7 407 FISHMAN, G.S. — SAMPLING FROM THE GAMMA DISTRIBUTION ON A COMPUTER
7619 5 266 FLON, L. — MODULARIZATION AND HIERARCHY IN A FAMILY OF OPERATING SYSTEMS
7619 1 29 FLORENTIN, J.J. — INFORMATION REFERENCE CODING
7619 10 570 FRANE, J.W. — THE BMD AND BMDP SERIES OF STATISTICAL COMPUTER PROGRAMS (SHORT COMMUNICATION)
7619 6 335 FRIEDER, G. — A PROCESS FOR THE DETERMINATION OF ADDRESSES IN VARIABLE LENGTH ADDRESSING
7619 1 23 FULLER, S.H. — PERFORMANCE OF HEIGHT-BALANCED TREES
7619 7 417 GONNET, G.H. — HEAPS APPLIED TO EVENT DRIVEN MECHANISMS
7619 11 624 GRAY, J.N. — THE NOTIONS OF CONSISTENCY AND PREDICATE LOCKS IN A DATABASE SYSTEM
7619 5 279 GRIES, D. — VERIFYING PROPERTIES OF PARALLEL PROGRAMS: AN AXIOMATIC APPROACH
7619 5 266 HABERMANN, A.N. — MODULARIZATION AND HIERARCHY IN A FAMILY OF OPERATING SYSTEMS
7619 7 369 HALSTEAD, M.H. — THE TECHNOLOGY OF COMPUTER CENTER MANAGEMENT: A PROPOSED COURSE FOR GRADUATE PROFESSIONAL PROGRAMS IN COMPUTER SCIENCE OR IN INFORMATION SYSTEMS
7619 11 642 HAMLET, R.G. — HIGH-LEVEL BINDING WITH LOW-LEVEL LINKERS
7619 8 461 HARRISON, M.A. — PROTECTION IN OPERATING SYSTEMS
7619 2 98 HINDS, J.A. — A FAST DIVISION TECHNIQUE FOR CONSTANT DIVISORS
7619 8 471 HIRSCHBERG, D.S. — AN INSERTION TECHNIQUE FOR ONE-SIDED HEIGHT-BALANCED TREES
7619 12 674 HO, T. — COMPUTER-AIDED ANALYSIS AND DESIGN OF INFORMATION SYSTEMS
7619 10 576 HOFFMANN, H.-J. — AN IMPROVEMENT TO MARTIN'S ALGORITHM FOR COMPUTATION OF LINEAR PRECEDENCE FUNCTIONS (SHORT COMMUNICATION)
7619 5 273 HOWARD, J.H. — PROVING MONITORS
7619 2 68 IVES, F.M. — PERMUTATION ENUMERATION: FOUR NEW PERMUTATION ALGORITHMS
7619 1 23 KAEHLER, E.B. — PERFORMANCE OF HEIGHT-BALANCED TREES
7619 12 688 KANAL, L. — STRUCTURAL PATTERN RECOGNITION OF CAROTID PULSE WAVES USING A GENERAL WAVEFORM PARSING SYSTEM
7619 1 23 KARLTON, P.L. — PERFORMANCE OF HEIGHT-BALANCED TREES
7619 4 188 KATZ, S. — LOGICAL ANALYSIS OF PROGRAMS
7619 7 371 KELLER, R.M. — FORMAL VERIFICATION OF PARALLEL PROGRAMS
7619 7 385 KING, J.C. — SYMBOLIC EXECUTION AND PROGRAM TESTING
7619 1 3 KLEINROCK, L. — A STUDY OF LINE OVERHEAD IN THE ARPANET
7619 6 355 KNOTT, G.D. — A NUMBERING SYSTEM FOR PERMUTATIONS OF COMBINATIONS (SHORT COMMUNICATION)
7619 2 108 KNUTH, D.E. — ERRATUM: RECIPROCAL TABLE OF INAKIBIT-ANU INCORRECTLY RENDERED
7619 12 674 KONSYNSKI, B.R. JR. — COMPUTER-AIDED ANALYSIS AND DESIGN OF INFORMATION SYSTEMS
7619 12 688 KYLE, M.C. — STRUCTURAL PATTERN RECOGNITION OF CAROTID PULSE WAVES USING A GENERAL WAVEFORM PARSING SYSTEM
7619 5 251 LAMPSON, B.W. — REFLECTIONS ON AN OPERATING SYSTEM DESIGN
7619 11 601 LEDGARD, H.F. — COBOL UNDER CONTROL
7619 10 555 LEVIN, J. — A PARAMETRIC ALGORITHM FOR DRAWING PICTURES OF SOLID OBJECTS COMPOSED OF QUADRIC SURFACES
7619 4 175 LIENTZ, B.P. — A COMPARATIVE EVALUATION OF VERSIONS OF BASIC
7619 1 33 LITECKY, C.R. — A STUDY OF ERRORS, ERROR PRONENESS, AND ERROR DIAGNOSIS IN COBOL
7619 11 624 LORIE, R.A. — THE NOTIONS OF CONSISTENCY AND PREDICATE LOCKS IN A DATABASE SYSTEM
7619 9 509 LOUI, M.C. — WEIGHTED DERIVATION TREES (1975-76 GEORGE E. FORSYTHE STUDENT COMPETITION AWARD PAPER)
7619 5 285 MADISON, A.W. — CHARACTERISTICS OF PROGRAM LOCALITIES
7619 7 409 MALY, K. — COMPRESSED TRIES
7619 10 578 MAMRAK, S.A. — THE STATUS OF WOMEN AND MINORITIES IN ACADEMIC COMPUTER SCIENCE
7619 4 188 MANNA, Z. — LOGICAL ANALYSIS OF PROGRAMS
7619 2 73 MARTELLI, A. — AN APPLICATION OF HEURISTIC SEARCH METHODS TO EDGE AND CONTOUR DETECTION
7619 11 634 MARUYAMA, K. — OPTIMAL REORGANIZATION OF DISTRIBUTED SPACE DISK FILES
7619 7 395 METCALFE, R.M. — ETHERNET: DISTRIBUTED PACKET SWITCHING FOR LOCAL COMPUTER NETWORKS
7619 5 243 MILLEN, J.K. — SECURITY KERNEL VALIDATION IN PRACTICE
7619 3 148 MINSKY, N. — INTENTIONAL RESOLUTION OF PRIVACY PROTECTION IN DATABASE SYSTEMS
7619 3 127 MODIANO, M.M. — JOINING POLICIES IN A MULTIPRIORITY MULTICLASS COMPUTER SYSTEM
7619 10 578 MONTANELLI, R.G. JR. — THE STATUS OF WOMEN AND MINORITIES IN ACADEMIC COMPUTER SCIENCE
7619 10 576 MUTH, D. — AN IMPROVEMENT TO MARTIN'S ALGORITHM FOR COMPUTATION OF LINEAR PRECEDENCE FUNCTIONS (SHORT COMMUNICATION)
7619 1 3 NAYLOR, W.E. — A STUDY OF LINE OVERHEAD IN THE ARPANET
7619 3 113 NEWELL, A. — 1975 ACM TURING AWARD LECTURE: COMPUTER SCIENCE AS EMPIRICAL INQUIRY: SYMBOLS AND SEARCH
7619 10 542 NEWELL, M.E. — TEXTURE AND REFLECTION IN COMPUTER GENERATED IMAGES
7619 12 674 NUNAMAKER, J.F. JR. — COMPUTER-AIDED ANALYSIS AND DESIGN OF INFORMATION SYSTEMS
7619 1 3 OPDERBECK, H. — A STUDY OF LINE OVERHEAD IN THE ARPANET
7619 5 298 OPDERBECK, H. — ANALYSIS OF THE PFF REPLACEMENT ALGORITHM VIA A SEMI-MARKOV MODEL
7619 9 529 OPDERBECK, H. — CORRIGENDUM: ANALYSIS OF THE PFF REPLACEMENT ALGORITHM VIA A SEMI-MARKOV MODEL
7619 5 279 OWICKI, S. — VERIFYING PROPERTIES OF PARALLEL PROGRAMS: AN AXIOMATIC APPROACH
7619 5 295 PRIEVE, B.G. — VMIN--OPTIMAL VARIABLE-SPACE PAGE REPLACEMENT ALGORITHM
7619 7 404 RABIN, J. — SYNTHESIS OF DECISION RULES
7619 4 182 RAYMOND, J. — LG: A LANGUAGE FOR ANALYTIC GEOMETRY
7619 9 517 REINGOLD, E.M. — EFFICIENT GENERATION OF THE BINARY REFLECTED GRAY CODE AND ITS APPLICATIONS
7619 2 63 RIVEST, R. — ON SELF-ORGANIZING SEQUENTIAL SEARCH HEURISTICS
7619 11 595 ROSS, D.T. — HOMILIES FOR HUMBLE STANDARDS
7619 11 617 RUBIN, F. — EXPERIMENTS IN TEXT FILE COMPRESSION
7619 8 461 RUZZO, W.L. — PROTECTION IN OPERATING SYSTEMS
7619 2 98 SAAL, H.J. — A FAST DIVISION TECHNIQUE FOR CONSTANT DIVISORS

7619 6 335 SAAL, H.J. — A PROCESS FOR THE DETERMINATION OF ADDRESSES IN VARIABLE LENGTH ADDRESSING
7619 12 655 SAMMET, J.E. — ROSTER OF PROGRAMMING LANGUAGES FOR 1974-1975
7619 6 343 SCHUMACHER, H. — THE SYNTHETIC APPROACH TO DECISION TABLE CONVERSION
7619 1 23 SCROGGS, R.E. — PERFORMANCE OF HEIGHT-BALANCED TREES
7619 6 343 SEVCIK, K.C. — THE SYNTHETIC APPROACH TO DECISION TABLE CONVERSION
7619 6 314 SEVERANCE, D.G. — A PRACTITIONER'S GUIDE TO ADDRESSING ALGORITHMS
7619 9 529 SEVERANCE, D.G. — CORRIGENDUM: A PRACTITIONER'S GUIDE TO ADDRESSING ALGORITHMS
7619 2 84 SILER, K.F. — A STOCHASTIC EVALUATION MODEL FOR DATABASE ORGANIZATIONS IN DATA RETRIEVAL SYSTEMS
7619 3 113 SIMON, H.A. — 1975 ACM TURING AWARD LECTURE: COMPUTER SCIENCE AS EMPIRICAL INQUIRY: SYMBOLS AND SEARCH
7619 12 674 SINGER, C. — COMPUTER-AIDED ANALYSIS AND DESIGN OF INFORMATION SYSTEMS
7619 6 327 SMITH, A.J. — INTERFERENCE IN MULTIPROCESSOR COMPUTER SYSTEMS WITH INTERLEAVED MEMORY
7619 11 623 SMITH, A.J. — CORRIGENDUM: INTERFERENCE IN MULTIPROCESSOR COMPUTER SYSTEMS WITH INTERLEAVED MEMORY
7619 11 634 SMITH, S.E. — OPTIMAL REORGANIZATION OF DISTRIBUTED SPACE DISK FILES
7619 4 171 SMOOT, O.R. — DEVELOPMENT OF AN INTERNATIONAL SYSTEM FOR LEGAL PROTECTION OF COMPUTER PROGRAMS
7619 6 354 STEELE, G.L. JR. — CORRIGENDUM: MULTIPROCESSING COMPACTIFYING GARBAGE COLLECTION
7619 12 688 STOCKMAN, G. — STRUCTURAL PATTERN RECOGNITION OF CAROTID PULSE WAVES USING A GENERAL WAVEFORM PARSING SYSTEM
7619 5 251 STURGIS, H.E. — REFLECTIONS ON AN OPERATING SYSTEM DESIGN
7619 6 311 TAULBEE, O.E. — PRODUCTION AND EMPLOYMENT OF PH.D'S IN COMPUTER SCIENCE
7619 8 437 TENNENT, R.D. — THE DENOTATIONAL SEMANTICS OF PROGRAMMING LANGUAGES
7619 11 609 TINDALL, M.H. — THE DESIGN AND IMPLEMENTATION OF A TABLE DRIVEN, INTERACTIVE DIAGNOSTIC PROGRAMMING SYSTEM
7619 11 624 TRAIGER, I.L. — THE NOTIONS OF CONSISTENCY AND PREDICATE LOCKS IN A DATABASE SYSTEM
7619 8 461 ULLMAN, J.D. — PROTECTION IN OPERATING SYSTEMS
7619 9 491 WADLER, P.L. — ANALYSIS OF AN ALGORITHM FOR REAL TIME GARBAGE COLLECTION (1975-76 GEORGE E. FORSYTHE STUDENT COMPETITION AWARD PAPER)
7619 9 514 WALTER, K.G. — RECURSION ANALYSIS FOR COMPILER OPTIMIZATION
7619 9 526 WEGBREIT, B. — FASTER RETRIEVAL FROM CONTEXT TREES
7619 10 564 WEIN, M. — INTERACTIVE SKELETON TECHNIQUES FOR ENHANCING MOTION DYNAMICS IN KEY FRAME ANIMATION
7619 11 609 WILCOX, T.R. — THE DESIGN AND IMPLEMENTATION OF A TABLE DRIVEN, INTERACTIVE DIAGNOSTIC PROGRAMMING SYSTEM
7619 1 13 WILHELM, N.C. — AN ANOMALY IN DISK SCHEDULING: A COMPARISON OF FCFS AND SSTF SEEK SCHEDULING USING AN EMPIRICAL MODEL FOR DISK ACCESSES
7619 6 338 WISE, D.S. — REFERENCING LISTS BY AN EDGE
7619 9 501 YAP, C.K. — NEW UPPER BOUNDS FOR SELECTION (1975-76 GEORGE E. FORSTYHE STUDENT COMPETITION AWARD PAPER)

DEPARTMENT INDEX

ARTIFICIAL INTELLIGENCE AND LANGUAGE PROCESSING

7619 1 23 PERFORMANCE OF HEIGHT-BALANCED TREES * KARLTON, P.L. / FULLER, S.H. / SCROGGS, R.E. / KAEHLER, E.B.
7619 7 409 COMPRESSED TRIES * MALY, K.
7619 11 617 EXPERIMENTS IN TEXT FILE COMPRESSION * RUBIN, F.

COMPUTER SYSTEMS

7619 1 3 A STUDY OF LINE OVERHEAD IN THE ARPANET * KLEINROCK, L. / NAYLOR, W.E. / OPDERBECK, H.
7619 1 13 AN ANOMALY IN DISK SCHEDULING: A COMPARISON OF FCFS AND SSTF SEEK SCHEDULING USING AN EMPIRICAL MODEL FOR DISK ACCESSES * WILHELM, N.C.
7619 1 18 ON QUADRATIC ADAPTIVE ROUTING ALGORITHMS * AGNEW, C.E.
7619 2 98 A FAST DIVISION TECHNIQUE FOR CONSTANT DIVISORS * ARTZY, E. / HINDS, J.A. / SAAL, H.J.
7619 2 108 ERRATUM: RECIPROCAL TABLE OF INAKIBIT-ANU INCORRECTLY RENDERED * KNUTH, D.E.
7619 6 327 INTERFERENCE IN MULTIPROCESSOR COMPUTER SYSTEMS WITH INTERLEAVED MEMORY * BASKETT, F. / SMITH, A.J.
7619 7 395 ETHERNET: DISTRIBUTED PACKET SWITCHING FOR LOCAL COMPUTER NETWORKS * METCALFE, R.M. / BOGGS, D.R.
7619 11 623 CORRIGENDUM: INTERFERENCE IN MULTIPROCESSOR COMPUTER SYSTEMS WITH INTERLEAVED MEMORY * BASKETT, F. / SMITH, A.J.

EDUCATION

7619 7 369 THE TECHNOLOGY OF COMPUTER CENTER MANAGEMENT: A PROPOSED COURSE FOR GRADUATE PROFESSIONAL PROGRAMS IN COMPUTER SCIENCE OR IN INFORMATION SYSTEMS * CONTE, S.D. / HALSTEAD, M.H.
7619 8 430 TOOLS AND PHILOSOPHY FOR SOFTWARE EDUCATION * DONOVAN, J.J.

GRAPHICS AND IMAGE PROCESSING

7619 2 73 AN APPLICATION OF HEURISTIC SEARCH METHODS TO EDGE AND CONTOUR DETECTION * MARTELLI, A.
7619 8 454 DESIGNING SURFACES IN 3-D * CLARK, J.H.
7619 10 542 TEXTURE AND REFLECTION IN COMPUTER GENERATED IMAGES * BLINN, J.F. / NEWELL, M.E.
7619 10 547 HIERARCHICAL GEOMETRIC MODELS FOR VISIBLE SURFACE ALGORITHMS * CLARK, J.H.
7619 10 555 A PARAMETRIC ALGORITHM FOR DRAWING PICTURES OF SOLID OBJECTS COMPOSED OF QUADRIC SURFACES * LEVIN, J.
7619 10 564 INTERACTIVE SKELETON TECHNIQUES FOR ENHANCING MOTION DYNAMICS IN KEY FRAME ANIMATION * BURTNYK, N. / WEIN, M.

MANAGEMENT APPLICATIONS

7619 1 29 INFORMATION REFERENCE CODING * FLORENTIN, J.J.
7619 2 84 A STOCHASTIC EVALUATION MODEL FOR DATABASE ORGANIZATIONS IN DATA RETRIEVAL SYSTEMS * SILER, K.F.
7619 2 96 A COUNTERINTUITIVE EXAMPLE OF COMPUTER PAGING * FAGIN, R.
7619 3 148 INTENTIONAL RESOLUTION OF PRIVACY PROTECTION IN DATABASE SYSTEMS * MINSKY, N.
7619 4 187 CORRIGENDUM: A COUNTERINTUITIVE EXAMPLE OF COMPUTER PAGING * FAGIN, R.
7619 6 314 A PRACTITIONER'S GUIDE TO ADDRESSING ALGORITHMS * SEVERANCE, D.G. / DUHNE, R.A.
7619 7 404 SYNTHESIS OF DECISION RULES * CHENG, C-W. / RABIN, J.
7619 9 529 CORRIGENDUM: A PRACTITIONER'S GUIDE TO ADDRESSING ALGORITHMS * SEVERANCE, D.G. / DUHNE, R.A.
7619 11 624 THE NOTIONS OF CONSISTENCY AND PREDICATE LOCKS IN A DATABASE SYSTEM * ESWARAN, K.P. / GRAY, J.N. / LORIE, R.A. / TRAIGER, I.L.
7619 11 634 OPTIMAL REORGANIZATION OF DISTRIBUTED SPACE DISK FILES * MARUYAMA, K. / SMITH, S.E.
7619 12 674 COMPUTER-AIDED ANALYSIS AND DESIGN OF INFORMATION SYSTEMS * NUNAMAKER, J.F. JR. / KONSYNSKI, B.R. JR. / HO, T. / SINGER, C.

MANAGEMENT SCIENCE/OPERATIONS RESEARCH
7619 3 127 JOINING POLICIES IN A MULTIPRIORITY MULTICLASS BATCH COMPUTER SYSTEM * BABAD, J.M. / MODIANO, M.M.
7619 7 407 SAMPLING FROM THE GAMMA DISTRIBUTION ON A COMPUTER * FISHMAN, G.S.
7619 7 417 HEAPS APPLIED TO EVENT DRIVEN MECHANISMS (SHORT COMMUNICATION) * GONNET, G.H.

OPERATING SYSTEMS
7619 5 236 A LATTICE MODEL OF SECURE INFORMATION FLOW * DENNING, D.E.
7619 5 243 SECURITY KERNEL VALIDATION IN PRACTICE * MILLEN, J.K.
7619 5 251 REFLECTIONS ON AN OPERATING SYSTEM DESIGN * LAMPSON, B.W. / STURGIS, H.E.
7619 5 266 MODULARIZATION AND HIERARCHY IN A FAMILY OF OPERATING SYSTEMS * HABERMANN, A.N. / FLON, L. / COOPRIDER, L.
7619 5 273 PROVING MONITORS * HOWARD, J.H.
7619 5 279 VERIFYING PROPERTIES OF PARALLEL PROGRAMS: AN AXIOMATIC APPROACH * OWICKI, S. / GRIES, D.
7619 5 285 CHARACTERISTICS OF PROGRAM LOCALITIES * MADISON, A.W. / BATSON, A.P.
7619 5 295 VMIN--AN OPTIMAL VARIABLE-SPACE PAGE REPLACEMENT ALGORITHM * PRIEVE, B.P. / FABRY, R.S.
7619 5 298 ANALYSIS OF THE PFF REPLACEMENT ALGORITHM VIA A SEMI-MARKOV MODEL * CHU, W.W. / OPDERBECK, H.
7619 7 371 FORMAL VERIFICATION OF PARALLEL PROGRAMS * KELLER, R.M.
7619 8 461 PROTECTION IN OPERATING SYSTEMS * HARRISON, M.A. / RUZZO, W.L. / ULLMAN, J.D.
7619 9 529 CORRIGENDUM: ANALYSIS OF THE PFF REPLACEMENT ALGORITHM VIA A SEMI-MARKOV MODEL * CHU, W.W. / OPDERBECK, H.

PROGRAMMING LANGUAGES
7619 1 33 A STUDY OF ERRORS, ERROR PRONENESS, AND ERROR DIAGNOSIS IN COBOL * LITECKY, C.R. / DAVIS, G.B.
7619 2 55 SEMANTIC EVALUATION FROM LEFT TO RIGHT * BOCHMANN, G.V.
7619 4 188 LOGICAL ANALYSIS OF PROGRAMS * KATZ, S. / MANNA, Z.
7619 7 385 SYMBOLIC EXECUTION AND PROGRAM TESTING * KING, J.C.
7619 8 437 THE DENOTATIONAL SEMANTICS OF PROGRAMMING LANGUAGES * TENNENT, R.D.
7619 9 514 RECURSION ANALYSIS FOR COMPILER OPTIMIZATION * WALTER, K.G.
7619 10 576 AN IMPROVEMENT TO MARTIN'S ALGORITHM FOR COMPUTATION OF LINEAR PRECEDENCE FUNCTIONS (SHORT COMMUNICATION) * DUONG-KIEN, C. / HOFFMANN, H.-J. / MUTH, D.
7619 11 609 THE DESIGN AND IMPLEMENTATION OF A TABLE DRIVEN, INTERACTIVE DIAGNOSTIC PROGRAMMING SYSTEM * WILCOX, T.R. / DAVIS, A.M. / TINDALL, M.H.

PROGRAMMING TECHNIQUES
7619 2 63 ON SELF-ORGANIZING SEQUENTIAL SEARCH HEURISTICS * RIVEST, R.
7619 2 68 PERMUTATION ENUMERATION: FOUR NEW PERMUTATION ALGORITHMS * IVES, F.M.
7619 3 137 A PROGRAM DATA FLOW ANALYSIS PROCEDURE * ALLEN, F.E. / COCKE, J.
7619 6 335 A PROCESS FOR THE DETERMINATION OF ADDRESSES IN VARIABLE LENGTH ADDRESSING * FRIEDER, G. / SAAL, H.J.
7619 6 338 REFERENCING LISTS BY AN EDGE * WISE, D.S.
7619 6 343 THE SYNTHETIC APPROACH TO DECISION TABLE CONVERSION * SCHUMACHER, H. / SEVCIK, K.C.
7619 6 352 AN EFFICIENT LIST-MOVING ALGORITHM USING CONSTANT WORKSPACE * CLARK, D.W.
7619 6 354 CORRIGENDUM: MULTIPROCESSING COMPACTIFYING GARBAGE COLLECTION * STEELE, G.L. JR.
7619 6 355 A NUMBERING SYSTEM FOR PERMUTATIONS OF COMBINATIONS (SHORT COMMUNICATION) * KNOTT, G.D.
7619 7 416 A BUDDY SYSTEM VARIATION FOR DISK STORAGE ALLOCATION * BURTON, W.
7619 8 471 AN INSERTION TECHNIQUE FOR ONE-SIDED HEIGHT-BALANCED TREES * HIRSCHBERG, D.S.
7619 9 491 ANALYSIS OF AN ALGORITHM FOR REAL TIME GARBAGE COLLECTION (1975-1976 GEORGE E. FORSYTHE STUDENT COMPETITION AWARD PAPER) * WADLER, P.L.
7619 9 501 NEW UPPER BOUNDS FOR SELECTION (1975-1976 GEORGE E. FORSYTHE STUDENT COMPETITION AWARD PAPER) * YAP, C.K.
7619 9 509 WEIGHTED DERIVATION TREES (1975-1976 GEORGE E. FORSYTHE STUDENT COMPETITION AWARD PAPER) * LOUI, M.C.
7619 9 517 EFFICIENT GENERATION OF THE BINARY REFLECTED GRAY CODE AND ITS APPLICATIONS * BITNER, J.R. / ERLICH, G. / REINGOLD, E.M.
7619 9 522 AN EFFICIENT, INCREMENTAL, AUTOMATIC GARBAGE COLLECTOR * DEUTSCH, L.P. / BOBROW, D.G.
7619 9 526 FASTER RETRIEVAL FROM CONTEXT TREES * WEGBREIT, B.
7619 11 642 HIGH-LEVEL BINDING WITH LOW-LEVEL LINKERS * HAMLET, R.G.

SCIENTIFIC APPLICATIONS
7619 4 182 LG: A LANGUAGE FOR ANALYTIC GEOMETRY * RAYMOND, J.
7619 10 570 THE BMD AND BMDP SERIES OF STATISTICAL COMPUTER PROGRAMS (SHORT COMMUNICATION) * FRANE, J.W.
7619 12 688 STRUCTURAL PATTERN RECOGNITION OF CAROTID PULSE WAVES USING A GENERAL WAVEFORM PARSING SYSTEM * STOCKMAN, G. / KANAL, L. / KYLE, M.C.

REPORTS AND ARTICLES
7619 3 113 1975 ACM TURING AWARD LECTURE: COMPUTER SCIENCE AS EMPIRICAL INQUIRY: SYMBOLS AND SEARCH * NEWELL, A. / SIMON, H.A.
7619 4 171 DEVELOPMENT OF AN INTERNATIONAL SYSTEM FOR LEGAL PROTECTION OF COMPUTER PROGRAMS * SMOOT, O.R.
7619 4 175 A COMPARATIVE EVALUATION OF VERSIONS OF BASIC * LIENTZ, B.P.
7619 6 311 PRODUCTION AND EMPLOYMENT OF PH.D'S IN COMPUTER SCIENCE * TAULBEE, O.E. / CONTE, S.D.
7619 10 578 THE STATUS OF WOMEN AND MINORITIES IN ACADEMIC COMPUTER SCIENCE * MONTANELLI, R.G. / MAMRAK, S.A.
7619 11 595 HOMILIES FOR HUMBLE STANDARDS * ROSS, D.T.
7619 11 601 COBOL UNDER CONTROL * LEDGARD, H.F. / CAVE, W.C.
7619 12 655 ROSTER OF PROGRAMMING LANGUAGES FOR 1974-1975 * SAMMET, J.E.
7619 12 670 THE COMPUTER SCIENCE AND ENGINEERING RESEARCH STUDY (COSERS) * ARDEN, B.W.